Customer No.: 31561 Application No.: 10/708,805 Docket No.: 12264-US-PA

<u>AMENDMENT</u>

In the Claims

Please amend the claims as follows:

Claim 1 (currently amended) A system for accessing a plurality of devices at least a first device and a second device using a single-bus, the system comprising:

a first device;

a-second-device;

a single shared bus, coupled to the first device;

a bus isolator, coupled to the shared bus and the second device for isolating the second

device from the single shared bus or connecting the second device to the single shared bus; and

a control apparatus coupled to the single shared bus so that the bus isolator isolates the

second device from the single shared bus when the control apparatus needs to access the first

device and the bus isolator connects the second device with the single shared bus when the

control apparatus needs to access the second device.

Claim 2 (currently amended) The system of claim 1, wherein the control apparatus further

comprises:

a bus exchanger, coupled to the single shared bus for switching the authority for the

single shared bus between different devices; and

MAR-21-2007 WED 15:53 FAX NO.

> Customer No.: 31561 Application No.: 10/708,805

Docket No.: 12264-US-PA

P. 05

a bus arbitrator, coupled to the bus exchanger so that the bus arbitrator controls the bus

exchanger to connect the single shared bus with a circuit internally linked to the first device when

the control apparatus needs to access the first device and the bus arbitrator controls the bus

exchanger to connect the single shared bus with a circuit internally linked to the second device

when the control apparatus needs to access the second device.

Claim 3 (currently amended) The system of claim 2, wherein a pre-defined isolation

period must pass before the bus exchanger is permitted to switch the device for authority for the

single shared bus.

Claim 4 (original) The system of claim 1, wherein the second device comprises a memory

card compatible device.

Claim 5 (original) The system of claim 4, wherein the memory card compatible device is

either a memory card or a card reader.

Claim 6 (original) The system of claim 1, wherein the first device comprises a memory

device.

3

MAR-21-2007 WED 15:53 FAX NO. P. 06

Customer No.: 31561 Application No.: 10/708,805

Docket No.: 12264-US-PA

Claim 7 (original) A control apparatus for accessing a plurality of devices through a

single bus, the control apparatus connects to a first device through a shared bus and the control

apparatus also connects to a second device through the shared bus and a bus isolator, the control

apparatus comprising:

a bus exchanger, coupled to the shared bus for switching the authority of device for the

shared bus; and

a bus arbitrator coupled to the bus exchanger such that the bus arbitrator controls the bus

exchanger to connect with a circuit internally linked to the first device and to activate the bus

isolator to isolate the second device from the shared bus when the control apparatus needs to

access the first device and the bus arbitrator controls the bus exchanger to connect with a circuit

internally linked related to the second device when the control apparatus needs to access the first

device.

Claim 8 (original) The control apparatus of claim 7, wherein the bus exchanger is set to

wait for the passage of a pre-defined isolation period lasting from the end of accessing the first

device to the start of accessing the second device before switching the control of the shared bus

from the first device to the second device.

Claim 9 (original) The control apparatus of claim 7, wherein the second device comprises

a memory compatible device.

4

MAR-21-2007 WED 15:54

FAX NO.

P. 07

Customer No.: 31561 Application No.: 10/708,805

Docket No.: 12264-US-PA

Claim 10 (original) The control apparatus of claim 7, wherein the memory compatible

device is either a memory card or a card reader.

Claim 11 (original) The control apparatus of claim 7, wherein the first device comprises a

memory unit.

Claim 12 (currently amended) A system using a single bus for accessing a plurality of

devices-through-a single-bus, comprising:

a memory unit;

a memory card compatible device;

a shared bus, coupled to the memory unit; and

a control apparatus coupled to the shared bus such that the control apparatus controls the

shared bus to connect with a circuit internally linked to the first device when the control

apparatus needs to access the first device and the control apparatus controls the shared bus to

connect with a circuit internally linked to the second device when the control apparatus needs to

access the second device.

Claim 13 (original) The system of claim 12, wherein a pre-defined isolation period must

pass before the control apparatus is permitted to access the second device through the shared bus.

MAR-21-2007 WED 15:54

FAX NO.

P. 08

Customer No.: 31561

Application No.: 10/708,805 Docket No.: 12264-US-PA

Claim 14 (original) The system of claim 12, wherein the memory card compatible device

is either a memory card or a card reader.

Claim 15 (original) The system of claim 12, wherein the memory unit comprises read-

only memory.

Claim 16 (currently amended) A system using a single bus for accessing a plurality of

devices using a single bus, comprising:

a first device;

a second device;

a shared bus, coupled to the first device;

a bus isolator, coupled to the shared bus and the second bus for isolating the second

device from the shared bus or connecting the second device to the shared bus; and

a control apparatus coupled to the shared bus so that the bus isolator isolates the second

device from the shared bus when the control apparatus needs to access the first device and the

bus isolator connects the second device with the shared bus when the control apparatus needs to

access the second device, wherein the bus isolator is controlled by the control apparatus to isolate

the first device and the second device from the shared bus in consideration of signaling demand

for data transmission to prevent any data error resulting from a mutual interference of the signal

transmission between the first device and the second device.

, 6

MAR-21-2007 WED 15:55 FAX NO. P. 09

Customer No.: 31561 Application No.: 10/708,805

Docket No.: 12264-US-PA

Claim 17 (previously presented) The system of claim 16, wherein a triggering signal is

transmitted to the bus isolator for performing the isolation.

Claim 18 (previously presented) The system of claim 16, wherein if the signaling demand

for data transmission on the shared bus for the second device is lower than the first device, the

bus isolator connects the second device with the shared bus immediately when the control

apparatus carriers out data transmission to the second deice.

Claim 19 (previously presented) The system of claim 16, wherein a pre-defined isolation

period is expired when the bus exchanger is permitted to switch the first device or the second

device for authority for the shared bus.

7